STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



Contract # 62362

<u>NOTES</u>

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and ticd to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved lesting laboratory that the proposed bar splicer assembly satisfies the following requirements:

© (Tension in kips)

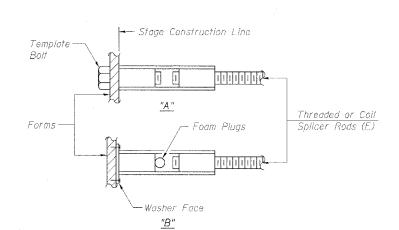
(Tension in kips)

(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi, A_t = Tensile stress area of lapped reinforcement bars.

= 28 day concrete

BAR SPLICER ASSEMBLIES					
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements			
		, ,	Min, Pull-Oul Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-0''	23.0	12.3		
#6	2'.7"	33.1	17.4		
#7	3′-5′′	45.1	23.8		
#8	4′-6′′	58.9	31.3		
#9	5′-9′′	75.0	39.6		
#10	7′-3′′	95.0	50.3		
#11	9'-0''	117.4	61.8		



BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

The diameter of this part is equal or larger than the

diameter of bar spliced.

** Heavy Hex Nuts conforming to ASTM A 563, Crade C, D or DH may be used.

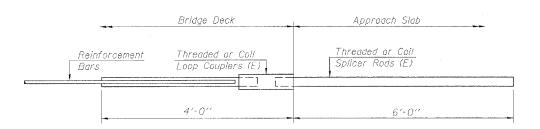
ROLLED THREAD DOWEL BAR

** ONE PIECE

- Wire Connector

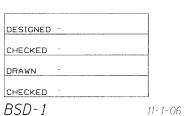
INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

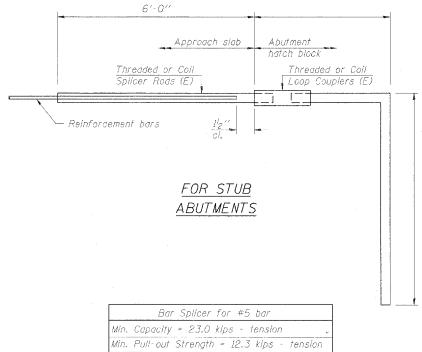
Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 0



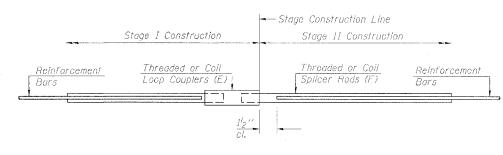
The diameter of this part

of the bar spliced:

is the same as the diameter



o. Required = 0



STANDARD

Bar Size	No. Assemblies Required	Location
#4	80	Stage Const. Joint
#4	152	Sidewalks
#5	274	PPC Deck Beams

BAR SPLICER ASSEMBLY DETAILS GREGORY STREET

OVER VERMONT STREET

SECTION 01031-2

COOK COUNTY

STRUCTURE NO. 016-0776

STATION 42+37.22



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